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PATENT  
Attorney Docket No. 215099

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Tanaka et al.

Application No. 10/038,918

Filed: January 3, 2002

For: NOVEL PROTEOME ANALYSIS  
METHOD AND DEVICES THEREFOR



Group Art Unit: Unassigned

Examiner: Unassigned

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, D.C. 20231

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

- ☒ **within** any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

- ☐ **after** (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes *one* of:
- ☐ the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).
- or*
- ☐ the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).
- ☐ **after** the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and on or before payment of the issue fee, and includes the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).
- ☐ **after** the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before payment of the issue fee, and **within** thirty days of receiving each item of information contained in the Information Disclosure Statement, and includes the Statement under 37 CFR 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).
- NOTE: This is for original applications except applications for a design patent, filed on or after May 29, 2000, wherein a paper containing only an Information Disclosure Statement in compliance with 37 CFR 1.97 and 1.98 is being filed.

#### Copies of the References

- ☒ Copies of the references listed on the enclosed Form 1449 are enclosed herewith. Attached to each reference not in the English language is a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3). An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3).
- ☐ A copy of the foreign search report is enclosed herewith.
- ☐ The references listed on the enclosed Form 1449 were previously identified in the parent application(s) of the present application, and copies of the references were furnished at that time. Accordingly, additional copies of the references are not submitted herewith, so as not to burden the file with duplicate copies of references. The Examiner is respectfully requested to carefully review the references in accordance with the requirements set out in the Manual of Patent Examining Procedure. In accordance with 37 CFR 1.98(d), the details of the parent application(s) relied upon for an earlier filing date under 35 USC 120 in which copies of the references were previously furnished are set out below:

U.S. APPLICATIONS		Status ( <i>check one</i> )		
U.S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
1.				
2.				
3.				

**Statement under 37 CFR 1.97(e)**

- ☐ The **undersigned** hereby states that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.
- ☐ The **undersigned** hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

**Statement under 37 CFR 1.704(d)**

- ☐ The **undersigned** hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

**Fees**

- ☒ **No fee** is owed by the applicant(s).
- ☐ The **IDS Fee of \$180** under 37 CFR 1.17(p) is enclosed herewith.

**Method of Payment of Fees**

- ☐ Attached is a check in the amount of \$ \_\_\_\_\_.
- ☐ Charge Deposit Account No. 12-1216 in the amount of \$ \_\_\_\_\_. (A duplicate copy of this communication is enclosed for that purpose.)


**Authorization to Charge Additional Fees**

- ☒ If any additional fees are owed in connection with this communication, please charge Deposit Account No. 12-1216. (A duplicate copy of this communication is enclosed for that purpose.)

In re Appln. of Tanaka et al.  
Application No. 10/038,918

**Instructions as to Overpayment**

☒ Credit Account No. 12-1216.  
☐ Refund

  
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John Kilyk, Jr., Reg. No. 30763  
LEYDIG, VOIT & MAYER, LTD.  
Two Prudential Plaza, Suite 4900  
180 North Stetson  
Chicago, Illinois 60601-6780  
(312) 616-5600 (telephone)  
(312) 616-5700 (facsimile)

Date: April 3, 2002

CERTIFICATE OF MAILING

I hereby certify that this INFORMATION DISCLOSURE STATEMENT (along with any documents referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

Date: April 3, 2002

  
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IDS (Rev. 2/27/2002)

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/038,918
				Filing Date	January 3, 2002
				First Named Inventor	Tanaka et al.
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	1	of	2	Attorney Docket Number	215399

U.S. PATENT DOCUMENTS						
Examiner Initials	Doc. No.	U.S. Patent Document		Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate
		Application or Patent Number	Kind Code			
	AA	4,789,734		Pierschbacher	Dec. 6, 1988	

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Doc. No.	Foreign Patent Document			Name of Patentee or Applicant	Date of Publication	Translation	
		Office	Application or Patent Number	Kind Code			Yes	No**
	AB	JP	07-118142		KA0 CORP	May 9, 1995		X
	AC	JP	07-267996		RES DEV CORP OF JAPAN	Oct. 17, 1995		X
	AD	WO	89/04322		North Carolina State University	May 18, 1989		
	AE	WO	94/28418		Baylor College of Medicine	Dec. 8, 1994		
	AF	WO	01/47947	A2	Amersham Pharmacia Biotech AB	July 5, 2001		
	AG	WO	01/49265	A1	Dana-Farber Cancer Institute, Inc.	July 12, 2001		

OTHER - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation	
			Yes	No**
	AH	SINGH et al., "Gangliosides as Receptors for Biological Toxins: Development of Sensitive Fluoroimmunoassays Using Ganglioside-Bearing Liposomes," <i>Analytical Chemistry</i> , 72 (24), 6019-6024 (December 15, 2000)		
	AI	BANERJEE et al., "Proteoliposome as the Model for the Study of Membrane-Bound Enzymes and Transport Proteins," <i>Molecular and Cellular Biochemistry</i> , 50, 3-15 (1983)		
	AJ	DALENÇON et al., "Liposomes Bearing Platelet Proteins: A Model for Surface Functions Studies," <i>Biochimica et Biophysica Acta</i> , 1302, 241-248 (1996)		
	AK	SUZUKI et al., "Mechanism of Selective Release of Membrane Proteins from Human Erythrocytes in the Presence of Liposomes," <i>Archives of Biochemistry and Biophysics</i> , 379 (2), 344-352 (July 15, 2000)		
	AL	SHINGLES et al., "Production of Membrane Vesicles by Extrusion: Size Distribution, Enzyme Activity, and Orientation of Plasma Membrane and Chloroplast Inner-Envelope Membrane Vesicles," <i>Analytical Biochemistry</i> , 229, 92-98 (1995)		
	AM	TRAINI et al., "Towards an Automated Approach for Protein Identification in Proteome Projects," <i>Electrophoresis</i> , 19, 1941-1949 (1998)		
	AN	SCHREINER et al., "Ultraviolet Matrix Assisted Laser Desorption Ionization-Mass Spectrometry of Electroblooded Proteins," <i>Electrophoresis</i> , 17, 954-961 (1996)		
	AO	LOO et al., "Diffusive Transfer to Membranes as an Effective Interface Between Gel Electrophoresis and Mass Spectrometry," <i>International Journal of Mass Spectrometry and Ion Processes</i> , 169/170, 273-290 (1997)		
	AP	KLARSKOV et al., "India Ink Staining After Sodium Dodecyl Sulfate Polyacrylamide Gel Electrophoresis and in Conjunction with Western Blots for Peptide Mapping by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry," <i>Rapid Communication in Mass Spectrometry</i> , 16, 35-42 (2002)		

Examiner Signature		Date Considered	
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\* A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).



APR 15 2002

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet	2	of	2
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Application Number	10/038,918
Filing Date	January 3, 2002
First Named Inventor	Tanaka et al.
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	215099

[illegible]

Date Considered

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